

Notice of Allowability	Application No.	Applicant(s)	
	10/668,581	HOFFMAN, DAVID M.	
	Examiner	Art Unit	
	Frederick F. Rosenberger	2884	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment filed on 14 August 2006.
2. ☒ The allowed claim(s) is/are 1,5-8,10,14-18,21 and 23-27.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
|---|---|

DETAILED ACTION

Response to Amendment

1. Applicant's reply, filed 14 August 2006, has been received and entered. Accordingly, claims 1, 8, 10, 16-18, 23, 24, 26, and 27 have been amended. Claims 2-4, 9, 11-13, 19-20, and 22 have been cancelled. No new claims have been added. Thus, claims 1, 5-8, 10, 14-18, 21, and 23-27 are currently pending in this application.
2. Applicant's amendment of the claims has successfully overcome the objections to the claims, as detailed in paragraphs 2-4 of the previous Office action.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Patrick Bergin (Reg. No. 54994) on 23 August 2006.

The application has been amended as follows:

Claim 18 (Currently Amended) A low profile detector module for a hybrid scintillation/direct conversion Computed Tomography (CT) imaging system, the CT

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imaging system having a scintillator/photodiode detector array, the detector module comprising:

A top x-ray translucent layer having at least a bottom surface;

A high voltage electrode deposited over the bottom surface of the top x-ray translucent layer;

A bottom layer having at least a top surface;

A substrate material situated over a portion of the top surface of the bottom layer;

A direct conversion block interposed between and in electrical connection with the electrode and part of the substrate material;

An ASICS chip in electrical connection with the substrate material; and

Said substrate material in electrical connection with further signal processing hardware; and,

An end block support located at a first end of the detector module, the detector module having a first end and a second end physically interposed between the electrode and the substrate material, said end block support both acting as a support member and containing a connector in electrical connection with the substrate material and further signal processing hardware, the top layer and bottom layer forming a sandwich type construction with the electrode, direct conversion block or scintillator/photodiode array, substrate material and the ASICS chip being contained therebetween;

~~—A plurality of the detector modules being arranged in a rigid array and being movable from a first position out of the x-ray beam, a second position wherein the low~~

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~~profile detector is partially within the x-ray beam and a third position wherein the low profile detector fully overlaps the scintillator/photodiode array.~~

Claim 23 (Currently Amended) The low profile detector module of claim 18 wherein the substrate material is a silicon substrate.

Allowable Subject Matter

4. Claims 1, 5-8, 10, 14-18, 21, 23-27 are allowed.

5. The following is an examiner's statement of reasons for allowance: Reasons for allowance have been previously made of record, as communicated in the Office action mailed 13 March 2006, specifically paragraph 10.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frederick F. Rosenberger whose telephone number is 571-272-6107. The examiner can normally be reached on Monday-Friday 8:00 AM - 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Frederick F. Rosenberger
Patent Examiner
GAU 2884



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